Form PTO-1449 (RE \$ \$83)	U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT		Atty. Docket: 2001180-0077 (HU 2060-02 US NATL)	In re Application No. 10/649,532	
ON 3 ME SE			Applicant: Schreiber et al.		
(User Everal sheets if necessary)			Filing Date: August 27, 2003	Group: 1626	
U. S. PATENT DOCUMENTS					
Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
•					
U.S. PATENT APPLICATIONS					
Examiner's Initials	Serial No.	Applicant	Filing Date		
•					
FOREIGN PATENT DOCUMENTS					
			Publication Date	Translation	
Examiner's Initials	Country & Document No.	Name		Yes	No
Examiner's Initials	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				
4.0	Akiyama et al., "Genistein, a Specific Inhibitor of Tyrosine-specific Protein Kinases" J. Biol. Chem., (1987) 262:5592-5595.				
	Amara et al., "A versatile synthetic dimerizer for the regulation of protein-protein interactions" Proc. Natl. Acad. Sci. USA, (1997) 94:10618-10623.				
	Armis et al., "Stereochemische Eigenschaften als Diversitäts-element: Festphasensynthese				
	cyclischer RGD Peptidderivate via asymmetrische Katalyse" Angew. Chem., (1998) 110:2010- 2012. Not. Wans lated.				
	Annis et al., "Stereochemistry as a Diversity Element: Solid-Phase Synthesis of Cyclic RGD				
70	Peptide Derivatives by Asymmetric Catalysis" Angew. Chem. Int. Ed. Engl., (1998) 37:1907-				
	1909. Blackwell et al., "A one-bead, one-stock solution approach to chemical genetics: part 1" Chem.				
	Biol., (2001) 1167-1182.				
	Blackwell et al., "Decoding Products of Diversity Pathways from Stock Solutions Derived from Single Polymeric Macrobeads" Angew. Chem. Int. Ed. Engl., (2001) 40(18):3421-3425.				
	Clemons et al., "A one-bead, one-stock solution approach to chemical genetics: Part 2" Chem.				
	Biol., (2001) 8:1183-1195. Coste et al., "PyBOP: a new peptide coupling reagent devoid of toxic by-product" Tetrahedron				
\bigvee	lett., (1990) 31:205-208.				

In re Application No. Atty. Docket: U.S. Department of Commerce Form PTO-1449 10/649,532 2001180-0077 Patent and Trademark Office (HU 2060-02 US NATL) **INFORMATION** Applicant: Schreiber et al. DISCLOSURE STATEMENT Group: Filing Date: everal sheets if necessary) August 27, 2003 Cramer et al., "Actin-dependent motile forces and cell motility" Curr. Opin. Cell. Biol., (1994) 6(1):82-86. Czarnik et al., "Encoding methods for combinatorial chemistry" Current Opinion in Chemical Biology, (1997) 1:60. Dolle et al., "A Statistical-Based Approach to Assessing the Fidelity of Combinatorial Libraries Encoded with Electrophoric Molecular Tags, Development and Application of Tag Decode-Assisted Single Bead LC/MS Analysis" J. Comb. Chem., (2000) 2:716-731. Evans et al., "Chirale C2-symmetrische Cu" Komplexe als Katalysatoren für enantioselektive, Hetero-Diels-Alder-Reaktionen" Angew. Chem., (1998) 110:3554-3557. Not trans lated Evans et al., "Chiral C2-Summetric Cu" Complexes as Catalysts for Enantioselective Hetero-Diels-Alder Reactions" Angew. Chem. Int. Ed. Engl., (1998) 37:3372-3375. Evans et al., "An Improved Procedure for the Preparation of 2,2-Bis[2-[4(S)-tert-butyl-1,3oxazolinyl]]propane](S,S)-tert-Butylbis (oxazoline)] and Derived Copper (II) Complexes" J. Org. Chem., (1998) 63:4541-4544. Evans et al., "Enantioselective Synthesis of Dihydropyrans, Catalysis of Hetero Diels -Alder Reactions by Bis (oxazoline) Copper(II) Complexes" J. Am. Chem. Soc., (2000) 122:1635-1649. Fitch et al., "High-Resolution 1H NMR in Solid-Phase Organic Synthesis" J. Org. Chem., (1994) 59:7955-7956. Hanessian et al., "Stereocontrolled solution and solid phase enolate alkylations and hydroxylations — generation of three and four contiguous stereogenic carbon atoms in acyclic systems" Tetrahedron Lett., (1999) 40:4631. Hergenrother et al., "Small-Molecule Microarrays: Covalent Attachment and Screening of Alcohol-Containing Small Molecules on Glass Slides" J. Am. Chem. Soc., (2000) 122:7849-7850. Holt et al., "Design, Synthesis and Kinetic Evaluation of High-Affinity FKBP Ligands and the X-ray Crystal Structures of Their Complexes with FKBP12" J. Am. Chem. Soc., (1993) 115:9925-9938. Hukreide et al., "Radiation hybrid mapping of the zebrafish genome" Proc. Natl. Acad. Sci., (1999) 96:9745-9750. Johnson et al., "Chiral Bis(oxazoline) Copper(II) Complexes: Versatile Catalysts for Enantioselective Cycloaddition, Aldol, Michael, and Carbonyl Ene Reactions" Acc. Chem. Res., (2000) 33:325-335. Jorgensen et al., "Catalytic Asymmetric Addition Reactions of Carbonyls. A Common Catalytic Approach" Acc. Chem. Res., (1999) 32:605-613 D. Keifer et al., "Influence of Resin Structure, Tether Length, and Solvent upon the High-

Angle-Spinning Probes" Magn. Reson., Series A, (1996) 119:65-75.

Resolution ¹H NMR Spectra of Solid-Phase-Synthesis Resins" J. Org. Chem., (1996) 61:1558-

Keifer et al., "A Comparison of NMR Spectra Obtained for Solid-Phase-Synthesis Resins

Using Conventional High-Resolution, Magic-Angle-Spinning, and High-Resolution Magic-

1559.

In re Application No. Form PTO-1449 Atty. Docket: U.S. Department of Commerce 10/649,532 Patent and Trademark Office 2001180-0077 (HU 2060-02 US NATL) **INFORMATION** Applicant: Schreiber et al. DISCLOSURE STATEMENT Group: [//] 6 Filing Date: leveral sheets if necessary) August 27, 2003 Leconte et al., "Solid-Phase Synthesis of Dihydropyrans by Eu(fod)3-Catalysed [4+2] Heterocycloaddition of Vinyl Ethers with Benzylidenepyruvic Acid Esters. Comparison with Conventional Homogeneous Liquid Phase Conditions" Eur. J. Org. Chem., (2000) 639-643. Lee et al., "A Strategy for Macrocyclic Ring Closure and Functionalization Aimed toward Split-Pool Syntheses" J. Am. Chem. Soc., (1999) 121:10648-10649. Macbeath et al., "Printing Small Molecules as Microarrays and Detecting Protein-Ligand Interactions en Masse" J. Am. Chem. Soc., (1999) 121:7967-7968. Maliga et al., "Evidence that Monastrol Is an Allosteric Inhibitor of the Mitotic Kinesin Eg5" Chem. Biol., (2002) 9:989-996. Mayer et al., "Small Molecule Inhibitor of Mitotic Spindle Bipolarity Identified in a Phenotype-Based Screen" Science, (1999) 286:971-974. Mitchison et al., Towards a pharmacological genetics" Chem. Biol., (1994) 1:3-6. Nakatsuka et al., "Total Synthesis of FK506 and an FKBP Probe Reagent, (C₈C₉-¹³C₂)-FK506" J. Am. Chem. Soc., (1990) 112:5583. Nestler et al., "A General Method for Molecular Tagging of Encoded Combinatorial Chemistry Libraries" J. Org. Chem., (1994) 59:4723-4724. Newman et al., "The influence of natural products upon drug discovery" Nat. Prod. Rep., (2000) 17:215-234. Ohlmeyer et al., "Complex synthetic chemical libraries indexed with molecular tags" Proc. Natl. Acad. Sci. USA, (1993) 90:10922-10926. Pace et al., "How to measure and predict the molar absorption coefficient of a protein" Protein science, (1995) 4(11):2411-2423. Pangborn et al., "Safe and Convenient Procedure for Solvent Purification" Organometallics, (1996) **15**:1518-1520. Panek et al., "Asymmetric Crotylation Reactions on Solid Support: Synthesis of Stereochemically Well-Defined Polypropionate-Like Subunits" J. Am. Chem. Soc., (1997) 119:12022-12023. Paterson et al., "A Combinatorial Approach to Polyketide-Type Libraries by Iterative Asymmetric Aldol Reactions Performed on Solid Support" Angew. Chem. Int. Ed. Engl., (2000) 39:3315-3319. Reggelin et al., "Towards Polyketide Libraries - II: Synthesis of Chiral Aracemic Di and Triketides on a Solid Support" Tetrahedron Lett, (1998) 39:4801-4804. Schreiber et al., "Using the Principles of Organic Chemistry to Explore Cell Biology" Chem.

Page 3 of 4

Schreiber et al., "Chemical Genetics Resulting from a Passion for Synthetic Organic

Schreiber et al., "Target-Oriented and Diversity-Oriented Organic Synthesis in Drug

Spring et al., "Towards Diversity-Oriented, Stereoselective Syntheses of Biaryl- or

Bis(aryl)metal-Containing Medium Rings" J. Am. Chem. Soc., (2000) 122:5656-5657.

Eng. News, (1992) October 26, 22-32.

Chemistry' Bioorg. Med. Chem., (1998) 6:1127-1152.

Discovery' DiScience, (2000) 287:1964-1969.

Atty Docket No.: 2001180-0077 Client Ref.: HU 2060-02 US NATL

Atty. Docket: In re Application No. U.S. Department of Commerce PTQ-1449 10/649,532 2001180-0077 Patent and Trademark Office (HU 2060-02 US NATL) **INFORMATION** Applicant: Schreiber et al. DISCLOSURE STATEMENT Group: Filing Date: se several sheets if necessary) August 27, 2003 Stavenger et al.,"Asymmetric Catalysis in Diversity-Oriented Organic Synthesis: Enantioselective Synthesis of 4320 Encoded and Spatially Segregated Dihydropyrancarboxamides" Angew. Chem. Int. Ed. Engl., (2001) 40(18):3417-3421. Sternson et al., "Split-Pool Synthesis of 1,3-Dioxanes Leading to Arrayed Stock Solutions of Single Compounds Sufficient for Multiple Phenotypic and Protein-Binding Assays" J. Am. Chem. Soc., (2001) 123:1740-1747. Stockwell et al., "High-throughput screening of small molecules in miniaturized mammalian cell-based assays involving post-translational modifications" Chem. Biol., (1999) 6:71-83. Sugimura et al., "A New Synthetic Method for α-Oxo-β,γ-unsaturated Esters" Bull. Chem. Soc. Jpn.., (1992) 65:3209-3211. Tallarico et al., "An Alkylsilyl-Tethered, High-Capacity Solid Support Amenable to Diversity-Oriented Synthesis for One-Bead, One-Stock Solution Chemical Genetics" J. Comb. Chem., (2001) 3:312-318. Tan et al., "Stereoselective Synthesis of over Two Million Compounds Having Structural Features Both Reminiscent of Natural Products and Compatible with Miniaturized Cell-Based Assays" J. Am. Chem. Soc., (1998) 120:8565-8566. Tan et al., "Synthesis and Preliminary Evaulation of a Library of Polycyclic Small Molecules for Use in chemical Genetic Assays" J. Am. Chem. Soc., (1999) 121:9073-9087. Thorhaugo et al., "Hochenantioselektive Katalytische Hetero- Not Translatell. Diels-Alder-Reaktion mit-inversem Elektronenbedarf' Angew. Chem., (1998) 110:2543-2546. Thorhauge et al., "Highly Enantioselective Catalytic Hetero-Diels-Alder Reaction with Inverse Electron Demand" Angew. Chem. Int. Ed. Engl., (1998) 37:2404-2406. Not Arans la Tietze et al., "Solid-Phase Three-Component Domino Reactions: Combinatorial Approach to Substituted 3,4-Dihyrdo-2H-pyrans" Synlett, (1996) 1043-1044. Woehlke et al., "Microtubule Interaction Site of the Kinesin Motor" Cell, (1997) 90:207-216. Zou et al., "Solid Phase Asymmetric Synthesis of Isoxazolines" J. Comb. Chem., (1999) 2:6-7.

EXAMINER T. A. Solola

DATE CONSIDERED 6-29-03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.